



## From the Director's Desk

I want to wish every Illinois firefighter a joyous and safe 2005. Events in Iraq and Afghanistan bring home the reality of the threats posed by terrorists that are potentially faced by firefighters and other first responders here at home. Our goal in training is to help every Illinois firefighter do the work they are asked to do in their community through training, education, information, and research. Clearly, preparing for the challenges firefighters face today and tomorrow involve the new challenges of homeland security and interdisciplinary cooperation in a CBRNE/BNICE environment. In order to continue to meet these new challenges in training and education, IFSI has developed Vision 2010. It is articulated in our FY2004 Annual Report, available in its entirety on our website at:

<http://www.fsi.uiuc.edu/pdf/IFSI-FY04AnnualReport.pdf>

I invite you to take a few minutes to read about our Vision 2010 goals to better support you in the future. I welcome your comments and input to the Vision and how we might better serve you. Please email me at [Jaehne@uiuc.edu](mailto:Jaehne@uiuc.edu). Here are some of the report's highlights:

**Training programs for all firefighters.** IFSI, in partnership with the Office of the State Fire Marshal and all major fire organizations, will continue to offer and expand the Cornerstone one-day hands-on training programs. Online programs will soon be available for all Awareness-level training. Firefighter II online has just registered its 300th student and IFSI has partnered with the University of Florida to make an online fire science degree available at in-state rates. Our library continues to offer research, online and inter-library loan services. The second CD training program was distributed at no cost to all departments under a grant from the Illinois Firefighter's Association (IFA). Please use it and thank IFA.

### HAZMAT & TRT Team Training

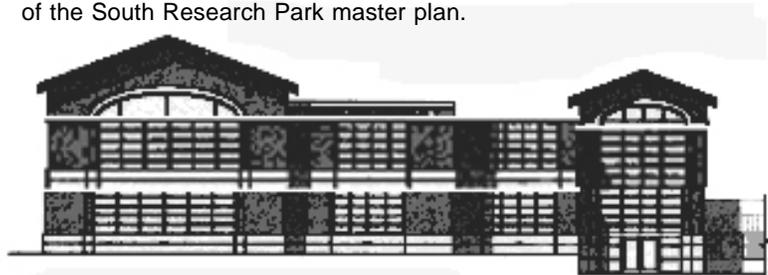
- IFSI has requested the Department of Homeland Security (DHS) "institutionalize" the courses created as baseline training for the state-wide deployable HAZMAT and technical rescue teams (TRT). Training for designated team members will continue at IFSI and in selected Regional Training Centers (RTC) statewide.

- A special subcommittee of the Illinois Terrorism Task Force (ITTF) Training Committee has recommended investment in HAZMAT and TRT training props to be located at RTCs.

- Unified command training is well underway. Thank you for your overwhelming support and to Bill Farnum for working non-stop to make it happen! As a follow-on, we will be working with the MABAS and the Illinois Terrorism Task Force to develop a training program for Incident Management Assistance Teams (IMAT), which meets the requirements established by FEMA Typing standards and Resource Definitions. This effort will develop tailored training programs for individuals participating in local, regional, statewide and national IMATs.

- Interdisciplinary Safety Officer training programs will be developed -- building upon the recently updated fire and law enforcement safety officer training programs, in order to provide interdisciplinary safety teams to support unified command at major events.

**Capital Development Plan.** During FY2004 IFSI continued development and implementation of a long-term capital development plan. As part of Vision 2010, IFSI envisions two capital projects. The first project is the construction of a library/Homeland Security Research Center Laboratory (HSRC-Lab) at the IFSI site as part of the South Research Park master plan.



The second project is the development of a new burn training/research facility in the new South Farms area. Hands-on training in realistic structures under live-fire conditions is critical to IFSI's ability to remain among the nation's leading hands-on fire fighting schools. There is also a growing interest in interdisciplinary, homeland security research to include building product research with the College of Engineering and the National Institute of Standards and Technology (NIST). IFSI continues to be a leading hands-on fire fighting school, while providing new and unique opportunities for homeland security and engineering research. Please contact us if you want to help with these capital efforts.

Richard Jaehne  
Director

---

Director  
Richard L. Jaehne

Deputy Director  
David F. Clark

Assistant Director for  
Chicago Metro  
John McCastland

The Illinois Fire Service Institute Newsletter is the official publication of the Illinois Fire Service Institute, University of Illinois Urbana-Champaign. The Newsletter is published twice a year and is solely an educational and advisory aid to the fire service and individuals working to establish and maintain a fire safe environment in Illinois.

Opinions expressed in the Illinois Fire Service Institute Newsletter are those of the authors and do not necessarily represent the official opinions of the Illinois Fire Service Institute unless otherwise noted in the article.

The Illinois Fire Service Institute will consider for publication articles or items of interest to the fire service of Illinois and encourages materials from all fire-related professions for consideration.

Persons interested in furnishing articles, should forward materials to:

IFSI Newsletter, 11 Gerty Drive, Champaign, IL 61820

or E-mail information to Terri Hopper at [hopper@uiuc.edu](mailto:hopper@uiuc.edu). Please include appropriate graphics or digital photos.

Materials in this newsletter may be reproduced or republished provided credit is given to source and author.

The University of Illinois is an affirmative action, equal opportunity institution.



Our website has the most current class information

**[www.fsi.uiuc.edu](http://www.fsi.uiuc.edu)**

So that you might be able to plan your training schedule up to a year in advance, we distribute our printed calendar to Illinois fire houses in November each year. Sometimes changes to the printed version of our calendar are inevitable. Below are listed some changes and corrections for our 2005 printed calendar. Please make a note of these changes.

**Tactics & Strategy I** at Southeastern Illinois College in Harrisburg is now scheduled for September 10 - 11 and 17 - 18.

**Tactics & Strategy I** is scheduled for November 7 to 11. The calendar incorrectly lists the class as Tactics & Strategy 2.

**Structural Collapse Rescue Technician** during the first week of May is a five day class: May 2 - 6

You can always count on the IFSI web site to have the most up-to-date schedule. I encourage you to use it as your first source for information on class schedules. You can search for classes by category, location or schedule.

## Table of Contents

From the Director	1
News & Notes	3
Table Talk	4
Fire Fighting Training Programs	5
Ladder Color Codes	8
Be Prepared to Deal with Magnesium in Truck Dashboards	9
Distance Learning -- A Success Story	10
Research at IFSI	11
Development at IFSI	12
Educational and Research Foundation Scholarships	13
Princeton Media Day	14
Computer Based Training	16
Library Updates & Highlights	18
Greg Fisher and Cornerstone	20
Explorer Cadet Fire School	21
81st Annual Fire School	22
Contacts	23

# News & Notes

I hope you made a New Year's resolution to train more this year. After all, no fire department nor its firefighters are any better than its training program. If you did make a New Year's resolution, IFSI can help in a variety of ways.

Our staff of over 350 field instructors located throughout the state is a valuable resource for you, not only for directly providing training, but also to answer questions and as a reference to help solve problems. Wherever you live in Illinois, we have an instructor within about 50 miles of you. They, to paraphrase the old TV show, "Have experience – will travel." They would be happy to come speak at one of your area Association meetings, too. If you are hosting a meeting, and need a speaker, let us know.

We are constantly upgrading our website with new services, as well as information. Check it out frequently.

Our library is another good source of both information and training materials and can be accessed online.

IFSI offers a growing number of courses online. The latest to become available is "Technical Rescue Awareness," and more are in development. Information about them is available on our website.

We are working on additional CD/DVDs that will be distributed to every fire department at no cost to them. The next one will be "Rural Water/Tanker Ops," followed by "Aerial/Truck Company Ops," and "Structural Fire Attack." If you have not seen your department's copy

of the "Down & Dirty Firefighting Skills" and the "Engine & Pumping Operations," be sure to take a look at them.

"Cornerstone" training, which we provide under a grant from the Office of the State Fire Marshal at no cost to your department, is only a phone call or request form away. This program provides a wide variety of classes, some of which can be customized to meet your specific needs. These classes are generally conducted in your local area, though we also host "Light & Fight" live burn weekends at IFSI and our Regional Training Centers (RTCs). These can be attended by individual firefighters or by departments. You can contact IFSI to see about scheduling a tower burn day for your area association or MABAS division.

IFSI has switched to a new computer system to manage our records and data. If you have not done so, please check our website, and if necessary, update your personal information in our student records.

IFSI is moving forward with both homeland security and fire fighting research agendas. You will hear more about these in the future.

*David F. Clark  
Deputy Director*

---

We have been advised by the National Fire Academy that they are experiencing a number of instances around the country in which private individuals or companies have been contracting with fire departments and charging tuition to supposedly deliver NFA classes. Illinois is one of the states in which this has recently been tried.

It is the NFA policy to work through the state training agencies for the delivery of NFA classes in the states, not through private vendors. In fact for the past several years NFA has provided each of the states, including Illinois, their curriculum along with a grant to fund delivery of these NFA classes, so local delivery is at no cost to the student.

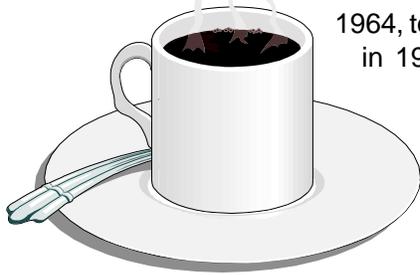
## **FYI - NFA Class Scam Problems**

If someone tries to circumvent the established system and go around the state training agencies, NFA will not issue NFA certificates for the course.

If you would like to host an NFA class contact IFSI, and we can most likely arrange to provide it for you at no cost.

Also, please advise IFSI if you are approached by someone trying to sell NFA classes, so we can notify the National Fire Academy, and they will take appropriate action.

# Table Talk



*'MAC'  
McCastland,  
Assistant  
Director for  
Chicago Metro*

I'm pretty fortunate to be doing what I am at this point in my life. Just about the time this issue hits the street, I will be wrapping up 41 years in the Fire Service and looking forward to a good handful more.

I started as a firefighter in 1964, took a couple of years off in 1966-1968 to serve with the United States Marine Corps in Vietnam, returned to the job, rose through the ranks and retired as Chief of Department of the Oak Lawn Fire Department in 1993. Then I moved on to the Orland Fire District, left there as Chief of Department in 2000 to take a full-time position with the Illinois Fire Service Institute. In addition to serving as Assistant Director- Chicago Metro Region for IFSI, I also hold the position of Deputy Fire Chief for the Homer Township Fire District, working for some of the kids who worked for me in Orland.

My IFSI- Chicago Metro Office is located in the firehouse at Homer, which is good because it provides me with my daily dose of how the "other shift" doesn't do squat around here. The circus remains the same —only the clowns change. And change is good - right ????

Lord knows that the Fire Service has seen a tremendous amount of change since that spring day in 1964 when I first walked into a fire station. We had no NFPA and we were driven by the AIA (American Insurance Association) Special Interest bulletins. Training was driven by whatever your Company Officer thought was important. Certification wasn't even on the horizon; no closed crew cabs, only open tail boards; no portable radios; no air-packs; no automatic transmissions and very few diesel-powered apparatus; no HazMat team — if it fit in the sewer, it went into the sewer; no Kelly days; no Paramedics — only advanced Red Cross; no little kids riding bikes with helmets; no carseats, and every kid had to have some Mercury to play with. The biggest bonus was that pay for a Firefighter 1st Class was approximately \$5,400 per year.

Yes, much has changed, most for the good, but we have also lost a lot in the deal. "High tech" has given us a whole bunch of good "STUFF" that makes the job easier and safer, while the demands of the community have drastically shortened the daily time allocated for staying on top of our jobs. How much time is devoted to learning the skills associated with the art of firefighting, learning the tools and how to properly use them?

When we had brass appliances and nozzles, they had to be cleaned on a regular basis. The bores had to be finished with crooker's cloth to ensure the stream would not break up — pyro-lite doesn't have the same problems.

How many of your people can properly "winterize" the hand pump after use in cold weather or who can fix the worn packing in the pump assy?

Do you take the time to check the dry-powder extinguisher on the rig, or just assume it will work because some tag from a service company has not been broken? Do your firefighters who have the responsibility of being on the hydrant know the value of keeping a nickel handy to operate a worn operating nut? All of us engine people were required to wear and use spanner belts in the "olden days" - how do you tie off a line, advance a line up a ladder, or heal it?

A good friend and teaching partner of mine is Ed Enright. "Double E" makes a point of asking students if they could find ten minutes each workday to get into the compartments and learn something extra about the tools and equipment. Those ten minutes could work out to be close to 18 hours per year. That's not much time to devote to something that could make your job easier or show you how to work a piece of equipment that may save you or your buddies life. Think about it!!

Well, time to strike it out. I can be reached at 815-834-9201 or by magic machine at [jmccastl@fsi.uiuc.edu](mailto:jmccastl@fsi.uiuc.edu).

**STAY SAFE, KEEP THE FAITH, GIVE ME A CALL, AND WE'LL TALK.**

# Fire Fighting Training Programs

The University of Illinois Fire Service Institute is proud to announce plans for the 81st Annual Fire College being held June 1-5, 2005. This is the oldest continuous fire school in the nation, and the largest in the Midwest.

This year's theme is "United We Stand: Training Together for Statewide Response." The keynote speaker will be Mr. Mike Chamness, who is the Chair of the Illinois Terrorism Task Force. He also serves as policy advisor to the Director of Homeland Security in Illinois and to the Director of the Illinois Emergency Management Agency, where he served as director from 1999-2003.

As far as classes, expect to see the core courses that every firefighter needs to succeed. Recruit Fire Training, Core Competencies, Coordinated Fire Ground, SCBA, and Fighting Single Family Dwelling Fires will all be back. Thermal Imaging Cameras, the Fire Scene Officer (classroom session), and the First-In Officer will be returning. "First-In" was one of the most popular classes last year, with its focus on what has to happen in the first few minutes of any fire to get the first line of the correct size in the right place on the first try. "Myths and Realities" will be again offered on Thursday night. See how to operate a two-and-a-half line with limited manpower, why smooth bore nozzles are preferred over wide-angle fog for modern interior firefighting, and how to effectively use hand tools to your advantage. Farm Extrication and Rescue, Confined Space Rescue, Essentials of Vertical Rescue, Trench Rescue, and Basic and Advanced Auto Extrication classes will again be offered. The Basic Fire Investigation class will be 24 hours, and now includes a very well-received hands-on module to get some first-hand experience with cause determination.

Some of the classes that were run in the past will be modified based on your feedback from last year. Commercial Building Operations has been shortened to focus on gaining more versatility on the engine side of these types of fires. Deputy Assistant Chief John Norman from the FDNY and District Chief Ray Orozco from the Chicago Fire Department will be presenting two 12-hour sessions of High Rise Fire Fighting Operations, drawing from their experiences over the course of their careers, as well as recent changes to general orders that have led to more successful outcomes at these challenging fires. Also returning this year is the popular "It Crashed In Your

Backyard" class, aimed at preparing structural fire departments to be ready for where most crashes happen—anywhere but at the airport.

New this year will be a 12-hour class with a focus on Propane Emergencies. This program will offer a greatly expanded view of the brief class held "on the road" for LP training. This class will be augmented by the Friday night open house, where we invite your families and the public to observe the live-propane fire suppression drills that you are invited to participate in. The Illinois Propane Education and Research Council is again lending tremendous support to enable IFSI to help you better mitigate and manage these potential emergencies.

This year will also see the unveiling of a 12-hour RIT program. This course is aimed at providing the student with a deeper understanding of what it takes to be a RIT team, common tools and techniques, and how to conduct a Rope Assisted Search using the RASP bag. A new Truck class on Saturday and Sunday will endeavor to help you further develop the core skills of laddering, search, rescue, ventilation, and other common and necessary fireground skills, regardless of whether or not you have a ladder truck.

This year will see the continuation of a few successful endeavors from the previous years. All participants will again receive a colored wristband to help us control access to our programs. These bands will again entitle you to discounts on food and beverages around Champaign-Urbana. For those taking hands-on classes, water bottles are being provided by Cabot Corporation to help keep you hydrated during your training. We will be offering lunch on-site from three vendors as we did last year, and will be expanding the menu and the schedule — we will now be serving lunch on-site on Thursday in addition to Friday and Saturday. We will also be having a vendor display room to allow firefighters and officers to get a feel for what products are available to help their departments.

*Brian Brauer  
Fire Fighting  
Program  
Director*

***Registration for the 81st Annual Fire College begins on April 1.***

*(continued to page 6)*

# Fire Fighting Training Programs

A complete list of classes and a registration form is available on [www.fsi.uiuc.edu](http://www.fsi.uiuc.edu). Like last year, your registration fees will be billed *AFTER* Fire College this year. We are also proud to announce that we are once again offering online registration to expedite the process of signing up for classes. Remember, you will be billed for any classes that you register for, even if you don't attend, unless you cancel before the deadline of 20 May. The registration process has been streamlined so that IF YOU PROVIDE A VALID EMAIL ADDRESS during the pre-registration, you will receive an email with the class you are slated to attend. To have the best options, register on-line or via fax ON 1 APRIL. The later you register, the less likely you will get into the courses you are most interested in. You will have 10 days from the confirmation email to cancel your registration. After 20 May, only emergency cancellations due to a medical emergency (not due to staffing issues, callback, etc.) will be accepted, and these must be submitted in writ-

ing (via paper mail or fax) no later than 30 September.

There is NO CHANGE in the fees for Fire College this year. The current structure is allowing us to run your Annual Fire College at a "break-even" point, something that had not occurred before. Based on demand from you, the firefighters that attend Fire College, we have changed the fee structure so that you now pay only for the sessions you attend. In the past, if you attended only 12 hours (1 session) of Fire College, you paid for all 24. You now only pay for the classes that you attend. The fee per 12-hour session is only \$50, with a \$50 per session lab fee for hands-on classes. 24-hour classes count as two sessions, with fees of \$100 for registration and \$100 for lab fees. Avoid the \$50 late fee by planning ahead and getting your registration in between 1 April and 29 April.

Visit the web site for registration information at [www.fsi.uiuc.edu](http://www.fsi.uiuc.edu). We will see you at the 81st Annual Fire College in June! Please contact Brian Brauer, Fire College Director, with any questions via email at [brbrauer@fsi.uiuc.edu](mailto:brbrauer@fsi.uiuc.edu).

***I would like to extend a personal invitation for you to attend the 81st Annual Fire College. As you plan your attendance, please keep these 2005 deadlines in mind:***

April 1	Registration opens
May 2	Last day to register without incurring a late fee
May 13	Course notifications sent to valid email addresses
May 20	Last day to cancel Fire College registration
May 27	Last day to advance register for Fire College. Any registrations received after this date will be treated as "at the door registrations."
June 2 - 5	<b>81st Annual Fire College</b>

***See page 22 for Fire College registration information.***

Here's what's coming up for Fire Fighting Programs for Spring 2005:

April 9 - 10	1st Prescription Burn Cooperation Program -- Salem
April 10 - May 20	Certified Firefighter II Academy (2nd session)
April 18-22	Fire Ground Company Officer -- <b>only a few seats left</b>
April 18-22	Fire Ground Command Officer
April 18-21; 26-29	Fire Apparatus Engineer, (Quad Cities)
April 25- 29	RIT Under Fire -- <b>only a few seats left</b>
May 9-13	FAST (Fire Attack Suppression Techniques)
May 16-20	Smoke Divers (Breathing Apparatus Specialist)
June 2-5	81st Annual Fire College

Contact Brian Brauer with your questions: [brbrauer@fsi.uiuc.edu](mailto:brbrauer@fsi.uiuc.edu)

# IFSI Represented at Illinois Fertilizer and Chemical Association Annual Conference

The Illinois Fertilizer and Chemical Association (IFCA) held their annual conference at the Peoria Civic Center January 24 – 26, 2005. Dan Hite, Agriculture Rescue Coordinator, and Bill Renaker, Technical Rescue Program Director, presented “Working With Your Fire Department.” Dan’s presentation centered on anhydrous ammonia incidents, which was a central theme of the conference this year. He also talked about other types of farm incidents as well as planning and what to do before the fire department arrives and IFSI’s present and future agricultural rescue programs. His presentation was so well-received that 15 minutes after the scheduled conclusion, the audience was still asking questions. The Moderator, Jim Berry, past president of IFCA, finally announced that the program was

officially over, but interested individuals were welcome to stay. About a third of the attendees stayed for another 15 minutes.

The convention and trade show allowed Dan, Bill, Jeff Courson, Director of Development, and Jim Berry, a new member of IFSI’s agriculture program, an opportunity to answer questions on an one-to-one basis. Numerous producers, suppliers, and manufacturers pledged support to the Institute. Additionally, several fire departments and farm co-ops throughout the state made request for presentations.

The Illinois Fertilizer and Chemical Association is one example of support partnerships being developed as IFSI increases its Agriculture Rescue Techniques Program.

---

## IFSI Receives Snorkel from Tinley Park

The Illinois Fire Service Institute recently received a snorkel from the Tinley Park Volunteer Fire Department. This unit replaces an older snorkel which was retired from service last Fall. The assistance from Tinley Park VFD in upgrading our fleet is greatly appreciated.



---

### **Notable Quote:**

*I'm broadening my education by coming to Fire College. Other firefighters encouraged me to attend...it was the best advice I've ever gotten. I took a week's vacation to come and I'll be back next year."*

*-- Mike from Roxana*

**Register online for Fire College at [www.fsi.uiuc.edu](http://www.fsi.uiuc.edu)**

# Ladder Color Codes

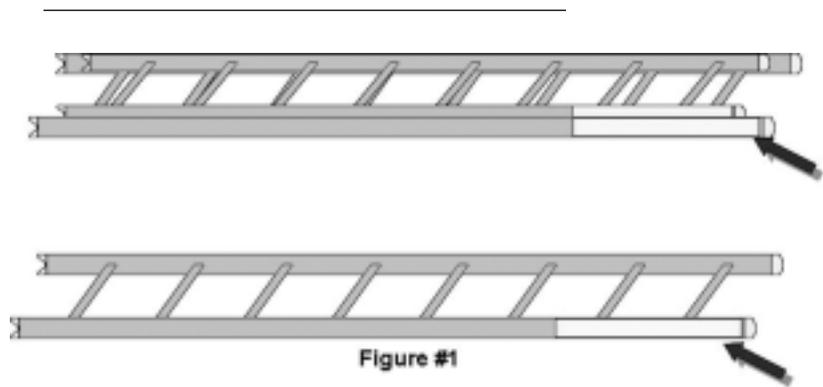
J.R. Rutledge  
 Distance  
 Learning  
 Educator

Experienced firefighters have learned that no matter how good you do your job, screw up just once and everyone seems to be watching. You might have set a record-breaking time for taking that ladder off the rig, getting it around to the rear and throwing it to the second floor to conduct a primary search. Chances are good the public won't see or know anything about that. What they will see is you taking that ladder down, carrying it back to the rig, and putting it back aboard the rig. Lesson to be learned – **Don't screw it up!**

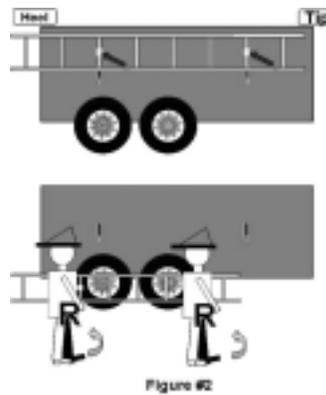
Most fire departments use some type of color coding system to identify which piece of equipment goes on which apparatus. Take advantage of this to help look your best after the fire. Paint the tip of one rail on your ladders as shown in Figure 1. If you store any of your ladders in the vertical position paint the tip of the upper rail. The paint can match the color coding system used by your department -- see Figure 2.

Then when you take the ladder down make sure you carry the painted rail up and it will slide or lock into position without embarrassment -- see Figure 3.

- Color coding ladders identifies unit
- Paint only one rail (Upper)
- Paint at least 8 — 18 inches of one rail
- Bright Colors



- Paint 2" strip to mark rack/lock location
- Rungs painted to mark lock location
- Returning from fire carry tip down on left shoulder
- Colors may identify storage location



- Truck compartments painted as illustrated or painted on one side if storage is flat
- Keeps ladder right side up
- Keep correct end in first



# Be Prepared to Deal with Magnesium in Truck Dashboards

*Duane Bales  
Auto Extraction  
Coordinator*

In an earlier article, I mentioned that you need to be alert to the industry putting more magnesium into the vehicles structure. Magnesium is gradually finding its way back into the automotive industry because it is lighter and helps keep the overall vehicle weight down. Magnesium is part of the front core mount on the 2004 Ford trucks, and now we find magnesium in the supports behind the front instrument panel in about 80% of GM vehicles. So if there is a fire under the dash of one of these vehicles, be aware of what the reactions could be.

Another thing to be aware of is the elimination of power steering that is powered by a hydraulic pump and now driven with either an electro-hydraulic or full electric steering. Electric-assisted steering can be found in some Hondas, Saturns, Chevrolets, Toyotas, and full-size GM trucks with quadmaster rear steering. These motors operate with about 80 volts of power.

Hybrids are becoming more popular with up to 25 models expected to be on the road by next year. Right now, the Lexus, Honda Accord, Insight and Civic, and the Toyota Prius are out, with the Highlander coming out soon. Ford marketed the Escape SUV on both coasts, but has curtailed production for the present time. GM is supposed to have a new pickup out this year.

What's next? Vehicles are changing as quickly as the weather, which means we need to constantly evaluate our protocols and techniques. What we could cut last year we may not be able to cut this year. We have never emphasized the "strip & peek" method before cutting in the past -- but now it is a must. Strip open the lining behind the area you are going to cut and peak to make sure you are not cutting into any hazard.



*New quadmaster steering wheel.*



*Firefighters need to be aware of what to expect when magnesium is burning and then is hit by water. The photo above shows such a reaction.*

**A reminder:** This is the last year for those who are Roadway Extraction certified by the Fire Marshal's office to transition over to Vehicle/Machinery Operations. If you need the Transition class, let us know so we can provide the training at your department or check our website for dates that it is being offered here at the Fire Service Institute.

# Distance Learning at its Best!

## A Success Story

*Ray Palczynski  
IFSI Field Staff*

Distance learning can mean different things to different students. To some it may be an extension class from a state university delivered at a local site. To others it means working through a state school from home or a community college. To others it means working on classes from home through a school that could be just about anywhere.

The Illinois Fire Service Institute offers many classes via the Internet. These classes, which can be completed from any location, are examples of a new high-speed type of distance learning. Students can participate from their residence, their local library, or their fire station. One IFSI student recently participated from his tent in Afghanistan.

Jeff Laube is a member of the Little Rock Fox Fire Department and the United States Army Reserves. He spent six years in the Army, then joined the Reserves after his hitch ended in August of 2001. In January of 2002, Jeff enrolled at the College of DuPage and began taking fire science classes. After only a year, he had to stop taking classes because his unit was going to be activated. The only option to continue learning, if possible, was some type of distance learning program. He began taking IFSI's Hazardous Materials Awareness online course in January of 2003. Prior to being deployed, there were several

months of in-country preparation, which delayed working on the class. In June, his unit was activated and sent to Afghanistan. After getting established in Bagram, Jeff was able to have some time for classes and he began to work on the Awareness class during his personal time at camp. After 13 months, many emails, and a state exam that crossed the world (and was returned), Jeff successfully completed the course. He is currently working on firefighter classes now that the Awareness class is finished.

As a member of the Fire Service for some 25+ years, I have heard many excuses (and used a few myself) as to why someone can or can't do something. "I'm too busy", "It's too hard," "I don't have enough time." After witnessing the dedication and determination Jeff put into completing the Awareness class and watching as he continues his fire service education, those excuses just don't cut it anymore.

Whether you are an instructor or a student, you can benefit from Jeff's attitude and determination. While serving his country he continues to better himself to ultimately serve his community. There are no barriers big enough to slow someone who wants to achieve. Thanks to IFSI, learning never stops!

---

## Your Opportunity for Distance Learning

### Technical Rescue Awareness Online

This course will provide first responders with general knowledge to work on the scene of Technical Rescue incidents during the initial stages. There are eight areas of instruction: General Standards, Structural Collapse, Rope Rescue, Confined Space Rescue, Vehicle and Machinery Rescue, Water Rescue, Wilderness Search and Rescue, and Trench / Excavation Rescue. The class provides participants with an understanding of laws, standards, terms, operating procedures for first due companies and risks associated with each type of incident. The areas of instruction can be identified in N.F.P.A.1670, and follow the objectives of the Office of the Illinois State Fire Marshal. This online course covers the materials delivered in the 8-hour Technical Rescue Awareness classroom course.

Technical Rescue Awareness Online is offered 12 times per year and begins at the first of each month. Each class lasts approximately 30 days.

***Register online at [www.fsi.uiuc.edu](http://www.fsi.uiuc.edu)***

# Research at IFSI

The research program at the Illinois Fire Service Institute hit the ground running in the latter part of 2004. IFSI has a legacy of research focused on reducing injuries and fatalities in firefighters, and the call for this effort continues to increase. Furthermore, there has been a recent surge in interest from across the University of Illinois campus with a desire to develop concepts, technology, and ideas that may one day allow firefighters to do their jobs more effectively and safely. In response to these demands, the Fire Service Research Program has been formed as an integral new pillar of the Institute's "Vision 2010." Our focus is to develop an academic research agenda that aids the Institute's mission of improving the safety and capability of all of Illinois firefighters.

The research pillar can be divided into three distinct sections. At the base, we are rooted in continuing the effort to decrease the injury and casualty rate of firefighters. Statistics for the past ten years consistently show that the number one cause of fatalities in your profession is from heart attacks, while the top two injuries stem from overexertion/strain and slips, trips or falls. How do we attack this problem? By continuing to expand upon the decade of research carried out by Dr. Denise Smith and Dr. Steve Petruzzello to determine heat stress effects on the physiology and psychology of firefighters. To that end, Brian Brauer, Smith, and Petruzzello have begun research into the effects of firefighter fitness levels. We are currently pursuing funding to initiate research on the effects of dehydration in firefighters, best practices in rehabilitation research, and the beginnings of a slip, trip and fall mitigation program.

The second portion of our pillar, which is the most aggressively growing component, focuses on developing new technology for incident management and command. Brauer is a co-Principal Investigator in the recently initiated cross-campus CP2R project, which is developing an *Information*

*Technology based Collaboration framework to Prepare for, Respond to, and Recover from Disasters.* The Research Program is also developing projects with Motorola to design novel software architecture for Unified Incident Command, and with the Electrical Engineering Department to design sensor networks for improved firefighter communications and tracking within buildings.

The final segment of our pillar focuses on our expanded push to maintain research connectivity with campus. With this undertaking, our goal is to provide the young men and women at the University of Illinois a hands-on experience with the Fire Service. In the spring semester of 2005, there will be university students working with IFSI staff on technical writing projects and IFSI staff in the Architecture classroom. On the engineering campus, students will investigate projects dealing with collapse rescue, vertical rescue, and with BLEVE'd propane tanks. This campus provides the next generation of professionals who will be responsible for designing the future ... hopefully with an eye out for the Fire Service.

The mission of the Research Program is simple: to serve the working firefighter. It is our goal to develop solutions for the problems of today, but also to look towards the future and involve the Fire Service in the research and development of state of the art technology. We are always interested in hearing input from those we hope to serve, so please do not hesitate to contact me with questions, comments or suggestions. All the best, and please have a safe 2005!

by Gavin Horn  
Research  
Program  
Coordinator

*"If Prometheus was worthy of the wrath of heaven for kindling the first fire upon earth, how ought all the gods honor the men who make it their professional business to put it out?"*

— John Godfrey Saxe, (American journalist, poet, and lecturer) circa 1850

“Fight Fire – Eat Hot Wings”

## Monical’s Promotion Generates Support for IFSI Fund

Jeffrey A.  
Courson,  
Director of  
Development

In an effort to further strengthen its commitment to working with communities, Monical Pizza Corporation announced a \$5,000 plus donation to the Illinois Fire Service Institute Fund (IFSIF). The donation is the result of a month-long promotion “Fight Fire...Eat Hot Wings,” where 50¢ of every six-pack of hot wings sold at participating Monical’s Pizza restaurants during the month of October was given to the Fund.

The Illinois Fire Service Institute Fund was established as a way for alumni and donors to provide support to the Illinois Fire Service Institute. New courses and equipment for training and research are among the benefits provided by donations.

Representatives from Monical’s presented the check to the IFSI representatives on December 13th at the Institute in Champaign.

A big “Thank You” to everyone who participated in the “Fight Fire – Eat Hot Wings” promotion!

In addition, we extend a special thank you to Monical Pizza Corporation who provided this opportunity to increase support for the Fund from all across the state of Illinois. With contributions such as this, the IFSI will be better able to fulfill its commitments to “Helping Firefighters do their Work through Training, Education, Information, and Research.”

Thank you to all of our donors and alumni who have given generously to the Illinois Fire Service Institute over the past year. Whether it is a cash donation or a gift-in-kind, the Illinois Fire Service Institute greatly appreciates each and every gift.

For information on how you can help or if you have questions about a future or past donation, please contact: Jeffrey A. Courson, Director of Development at 217-333-8923 or by email at [jcourson@fsi.uiuc.edu](mailto:jcourson@fsi.uiuc.edu).



Use the enclosed envelope to show your support for IFSI.

**IFSIF recognizes those businesses, organizations and individuals who support our mission of helping firefighters do their work through training, education, information and research.**



**Five Bugle Level (\$5,000 and above)**  
Globe Manufacturing Company  
Hurst Jaws of Life Hydraulic Equipment Group  
Motorola, Inc.  
Monical Pizza Corporation  
Mr. James R. Reilly



**Three Bugle Level (\$500 - \$999)**  
State Farm Mutual Automobile Insurance Company  
Niro's Gyro's  
Villarreal Pizza Inc.



**Four Bugle Level (\$1,000 - \$4,999)**  
Res-Q-Jack, Inc. Cepco Tool Company  
Peltor Communications  
Plym Foundation, Inc.  
Ms. Pam Granath  
Mr. Michael Thomas Dean  
Illinois Chapter-IAAI  
G & D Transportation  
Mr. Gerald L. Farina  
Carle Foundation Hospital  
Mr. and Mrs. Jimmy J. Hopper



**Two Bugle Level (\$100 - \$499)**  
Mr. and Mrs. C. Lyman Monroe  
Mr. Andrew W. Allan  
Mr. Thomas B. Whittaker  
Mr. John Kelly Cavanaugh  
Mr. Lewis L. Lake  
Mr. Roger Krupp  
Mr. Thomas F. Sutkus  
Garden Homes Firefighters Assoc.  
Quizno's  
Meijer

**One Bugle Level (\$25 - \$99)**



Mr. Salvatore S. Marchese  
 Mr. Barry L. Henby  
 Mr. Leo W. Riley  
 Mr. Joseph E. Jones  
 Mr. Roger D. Bayne Jr.  
 Mr. Charles G. Moss  
 Mr. Chris T. Cavanaugh  
 Mr. and Mrs. Chris J. Bednarek  
 Mr. Kevin D. Linhart  
 Mr. Daniel E. Kinsella  
 Mr. Richard Van Asdlen  
 Mr. Bryant J. Krizik  
 Mr. Charles R. Exner  
 Mr. Donald M. Davids  
 Mr. Kevin D. Wiley  
 Mr. Brian T. Ross  
 Mr. Dean J. Maggos  
 Mr. Stephen K. Kish  
 Ms. Donna L. Lowkowitz  
 Mr. Humza H. Shamsuddin  
 Mr. Carlos Ramos

Mr. & Mrs. Don B. Lynch  
 Mr. Mitchell S. Crooker  
 Mr. Joe W. Boatner  
 Mr. Dennis W. Prohaska  
 Mr. Mark P. Lindquist  
 Mr. Patrick J. Donnelly  
 Mr. Brian Smith  
 Mr. Winston D. Williams  
 Mr. Joseph W. Drennan  
 Mr. David A. Gorzycki  
 Mr. William D. Justiz  
 Mr. James R. Keener  
 Mr. Michael D. McCue  
 Arends and Sons, Inc.  
 Mr. Kyle D. Hill  
 Mr. Dean E. Rhodes  
 Mr. George K. Kersten  
 Mr. Joseph M. Heim  
 Mr. Thomas R. Blair  
 Mr. Ryan D. Fletcher  
 Mr. Robert V. McKanna  
 Mr. Lee A. Kaiser

Mr. Jeffrey M. Swan  
 Mr. Terry J. Long  
 Mr. James L. Fiedler  
 Mr. Michael J. Oberle  
 Mr. Jeffrey S. Kessinger  
 Ms. Nicole S. Philyaw  
 Jerry's IGA  
 Mrs. Diane L. Richardson  
 Mr. Richard E. Rotramel  
 Mrs. Lian Jin Ruan  
 The Coffee Station  
 Mr. & Mrs. Jeffrey A. Courson  
 Heath's, Inc.  
 Ms. Christina Guppy  
 Monical's Pizza  
 Mr. Joseph V. Gasparich  
 Mr. Michael Kokotovich  
 "Rene Genelle, Inc. Monicals Pizza"

## Illinois Fire Chiefs' Association Educational and Research Foundation Scholarship Competition

Each year in cooperation with the Illinois Fire Chiefs' Association, the Educational and Research Foundation coordinates a scholarship program. The program is supported by donations throughout the year. The objective of the scholarship program is to assist individuals who desire to expand their academic background through courses in the fire services or related certification programs. Individual scholarships are awarded in various amounts up to \$2,000 each. Applications for the scholarships are accepted each March, with application forms available from the Illinois Chiefs' Association web site at [www.Illinoisfirechiefs.org](http://www.Illinoisfirechiefs.org).

**The Illinois Fire Service Institute sponsors five scholarships:**

- |   |   |
|---|---|
| Gerald M. Monigold Memorial Scholarship     | One \$1000 grant to be used in the pursuit of education in the fire service field, with \$500 being provided by IFSI and \$500 matched by the Foundation.                               |
| Gerald M. Monigold Memorial Scholarship     | One \$1000 grant to be used in the pursuit of education in the fire service-related field at the graduate level, with \$500 being provided by IFSI and \$500 matched by the Foundation. |
| Illinois Fire Service Institute Scholarship | One \$1000 grant to be used in the pursuit of fire service training, with \$500 being provided by IFSI and \$500 matched by the Foundation.   |
| Dean Mercer Memorial                        | One \$1000 grant to be used in the pursuit of fire service training, with \$500 being provided by IFSI and \$500 matched by the Foundation.   |
| Andrew Fredericks Memorial                  | One \$1000 grant to be used in the pursuit of fire service training, with \$500 being provided by IFSI and \$500 matched by the Foundation.   |

# News Media Switch Gear for a Day

## Princeton Media Day a Big Success

*contributed by  
Gary Hanna,  
Fire Chief*

*John Petrakis,  
Deputy Fire  
Chief*

*Princeton Fire  
Department*

The Fire Service's interface with the news media is commonplace in the contemporary world. Comparatively, the Fire Service's relationship with the news media does not always have the trust and professionalism required to have a sound working rapport. The news media has a job to do and so do we. Unfortunately, we often fail to use them to our best advantage and see the press as an obstacle. We, as fire departments, are not always getting the message out regarding what we do and why we do it.

Think for a moment about a recent event where the fire department and news media have interacted. Routinely, the media observes us during our finest hour, the second alarm building fire, mass casualty on the interstate or third alarm hazardous materials incident at a fixed facility. They have the capability to see what we do, but do they really understand why it was done that way on the structure fire, vehicle accident, or hazardous materials incident? On any newsworthy incident, the press is there with the intention of asking the questions that will get them "the story." However, they also ask questions relating to the

east side of Princeton to utilize for training. This particular house has offered the Princeton Fire Department some outstanding training evolutions. The house also "hosted" three IFSI Cornerstone classes that were offered by other area volunteer fire departments.

During one of the in-house training evolutions, we invited a local newspaper photographer to take pictures. While the photographer was with us, she exhibited a lot of curiosity with such questions as:

- "Why do they drag the hose that way?"
- "Why are they crawling into the house?"
- "How hot does a fire get?"

It was with those questions and her inquisitiveness that provided the concept for Princeton Fire Department's Media Day.

After brainstorming and organizing our ideas, we invited two local newspapers, one local radio station, and three television stations from the Quad Cities. The responses for participation were overwhelming. Only two groups were unable to attend.

The next planning stage involved the Media Day curriculum. As a result, we planned a condensed First Day of a Firefighter Academy and this is what we developed:

- Media Day
  - \* Biographies of the instructor
  - \* Welcome letter
  - \* Purpose statement describing the purpose and goals of Media Day
  - \* Color group assignments
  - \* Outlines of the slide shows
  - \* Public education tips
  - \* Liability releases
  - \* Program evaluation questionnaires
- Classroom and demonstration sessions introducing the participant to structural firefighting gear, SCBA, basic fire behavior, fire attack, search, and basic fire ground operations
- Real-time evolutions that involved fire behavior, fire attack, search, and thermal imaging operations
- Each member was assigned a color group that was overseen by a fire department instructor who acted as the participant's mentor and safety officer. This firefighter would meet their designated person at the door and was to be at their side throughout the experience.

On the day of the event, we presented an hour-and-a-half classroom presentation that included demonstrations, fitting and orientation of structural firefighting gear and



*Princeton Fire Chief Gary Hanna and Deputy Fire Chief Petrakis orientate the Media Day participants to the personal protective equipment ensembles during a demonstration. Photo by D. Manley, News Tribune Newspaper Photographer.*

incident's operations that are second nature to chief officers, company officers, and firefighters on the fire ground. A teachable moment for the fire service? Absolutely!! We can (and should) use an incident to educate the public, but there is rarely time at the incident to educate the press.

In September of 2004, we were approached by a local real estate investor, who offered us an abandoned house on the south-

SCBA. After the classroom sessions, participants were transported in fire department equipment to the training site and briefed regarding the practical activities. A safety briefing was conducted, including a walkthrough of the training house, emergency procedures and evacuation routes.

We began with a fire behavior lecture and progressed into the fire attack and search evolutions. Several evolutions were executed and each time the participants were rotated to different assignments (i.e., fire attack, hose mechanics, search) to ensure all perspectives were seen.

Participants were shown the effect smoke detectors have on your ability to get out of a burning home safely. We showed them in graphic detail, the importance of closed doors, escape planning and secondary escape routes. We placed one smoke detector downstairs near the fire room and the other at the top of the stairs. Our two smoke detectors activated in less than a minute and exits were completely blocked by smoke in less than five minutes.

At the completion of the Media Day activities, every participant was given a Program Evaluation Questionnaire. The questionnaire gave the participant the opportunity to rate the program overall, instructor staff, strengths and weaknesses. There was also space to make any suggestions for a future Media Day event. The comments were very positive and heartfelt. All participants made it clear that if another Media Day event were to be held, they would attend.

For our efforts, we received a 30-minute news special that aired twice from 6:30 to 7 p.m., before and after Christmas. We also had permission to rebroadcast it on our local municipal channel, which we did often. One local newspaper gave us a page and a half feature covering the entire event and nearly all of the information. We also had radio coverage for three days following the Media Day event and other media had normal news coverage on the subject. More importantly, people across a far-reaching audience received very important information about firefighters and fire safety. The night the 30-minute special aired, the duty crew took several calls from area residents thanking the Princeton Fire Department for their efforts to educate the public.

The media persona is a component of every major fire scene. As the alarm level increases, so will their numbers and questions. It is essential that the fire service's interaction with the news media is an association in the contemporary fire service realm. By opening the apparatus bay doors and showing the media what we do and why we do it, we are providing a better understanding of the operations during the structure fire,

vehicle accident, or hazardous materials incident. As a result, they will have the capability to communicate a better and more accurate depiction of the fire service's mission.

Please contact Chief Hanna or Deputy Fire Chief Petrakis if you want further information on the Media Day Program. Call 815.875.1861 or email them at [ghanna@princeton-il.com](mailto:ghanna@princeton-il.com) or [jpetrakis@princeton-il.com](mailto:jpetrakis@princeton-il.com)



*A camera operator from KWQC Channel 6 News films during a fire behavior demonstration during Princeton Fire Department's Media Day event. Photo by D. Manley, News Tribune Newspaper Photographer*

# Computer Based Training

Rich Valenta  
Coordinator

IFSI eLearning winter quarter is very busy! We have several new tools available to enhance your IFSI online experience and improve distance education. This year we slated many new computer-based training projects. Be sure to visit our website to see what new training opportunities are available. This information is the most up-to-date and is constantly changing. I encourage you to visit the website often. The following information tells about the new products, upcoming projects, and assistance to the Student and Staff Resource Center—your personal gateway to IFSI.

## Online Courses

At this time, we are now offering four online classes:

- Certified Firefighter II Modules A-C
- Hazardous Materials Awareness
- Emergency Response to Terrorism: Basic Concepts
- Statewide WMD Response: Technical Rescue Awareness

## Two Online Lecture Programs:

- Fire Act Grant Workshop (2004)
- Incident Command

## Two National Fire Academy Courses:

- National Incident Management System (NIMS) An Introduction IS-700
- National Response Plan (NPR) An Introduction IS-800

---

**Information about these courses can be found in the Virtual Campus portion of the IFSI website located at:**

**[http://www.fsi.uiuc.edu/virtual\\_campus/](http://www.fsi.uiuc.edu/virtual_campus/)**

---

## Future Online Courses

We have committed to developing Awareness-level online courses, as well as advanced courses. In keeping with that, we are currently developing:

- Cause and Origin Awareness
- Fire Service Vehicle Operator
- Fire Apparatus Engineer

## Down and Dirty CD-ROM and DVDs

- Rural Water and Tanker Operations (CD-ROM)
- Fireground Support and Aerial Operations (DVD)
- Fire Attack Operations

## Student and Staff Resource Center

In the fall newsletter we told you of a new IFSI product that would enhance all you do with IFSI. I am pleased to report that the Student and Staff Resource Center (SSRC) is now available for your use. You will find that SSRC is your own personal gateway to what IFSI has to offer. Here are a few of the many items that SSRC offers.

- Course information/Online registration access
- IFSI announcements
- Discussion boards
- Student transcripts
- Access to online courses
- Class confirmations
- Address book to help you organize
- Chat rooms
- Email to instructors, staff, and other students
- Updated documents for courses you have taken

You can access SSRC at:

**[https://www.fsi.uiuc.edu/resource\\_center/](https://www.fsi.uiuc.edu/resource_center/)**

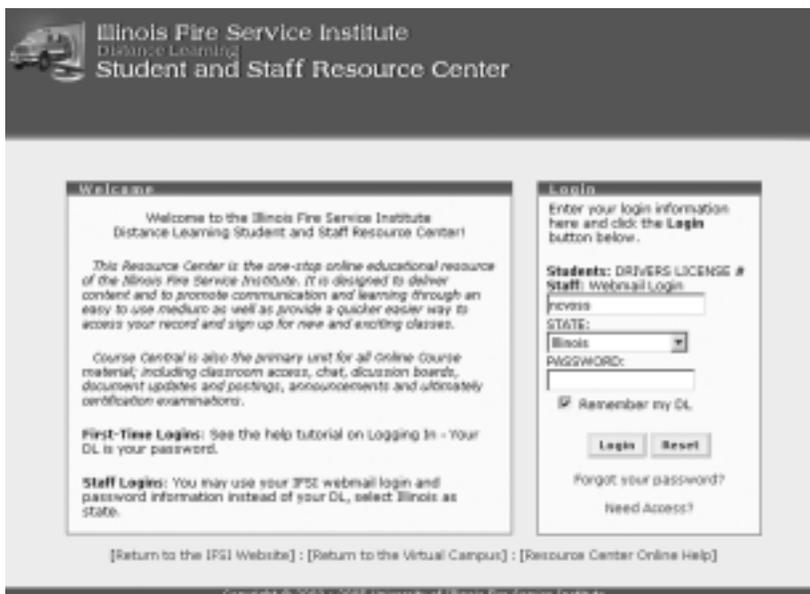
Follow the onscreen directions to login, and feel free to email us if you encounter any problems at: [webmaster@fsi.uiuc.edu](mailto:webmaster@fsi.uiuc.edu). (See the screen shot on the following page.)

## Strategies for Success

I receive many calls from students that have a fear of taking online courses, and there is no doubt that distance education can be a bit intimidating. This is mostly due to not knowing what to expect from the course. IFSI has adopted a basic format for most of the online courses. Students can be expected to participate in the following activities:

- Reviewing learning objectives
- Reading assignments
- Written homework assignments
- Viewing online multi-media presentations
- Participating in web chats and/or discussion boards
- Online quizzes
- Final examinations

As more of the IFSI student population participates in distance education, here are some basic study tips to assist with your learning experience.



Screen shot of IFSI SSRC login page.

## Distance Learning Education

Taking an online course is a challenging and different way to engage the learning experience. Distance learning takes self-discipline, and you must dedicate yourself to the study plan in order to meet your desired results. IFSI would like your learning experience to be a positive one. We are providing a few tips that will assist you in developing excellent learning habits. Please consult your instructor if you have any questions or need help.

## Effective Study Habits

*Be responsible for your course work.* First and foremost, you have to take responsibility for studying. You make all the decisions for your study time, obtaining needed resources, extra reading materials, department procedures, laws and standards and completing work on time as assigned.

*Set your study goals.* Set realistic study goals. These goals may be as simple as how much time can you allocate to study each day. Ask yourself: "Are my goals realistic?" -- especially when added to the other activities that you have each day.

*Create a study plan.* Set aside time for reading, homework, communication with your instructor and time to study for tests. Please remember, be realistic! We all have very busy schedules, so make sure to create a workable plan that you can follow.

*Get answers to problems quickly.* Many times we find ourselves stalled with our studies when we do not understand something. If you read or view materials several times and still do not understand them, seek help. Ask your

instructor, a department member or our librarian. This will allow you to keep to your study plan.

*Demand the most from yourself.* You may have heard the old adage "You only get out of something what you put into it." The same is true for your online course. There will not be anyone hovering over you to make sure you don't cut corners. Take the time and get the most out of the course. Your efforts will be rewarded with the knowledge you gain, and the added safety you will take with you to emergencies.

## Creating more effective writing assignments

By following these few points you will be able to improve your writing assignments with ease:

- Define your topic. A good thesis helps keep your assignment on track.
- Be clear about who are you writing to; who is your audience? (Instructor, students, as a critique)
- Get organized. Pre-assemble research, notes, and data so you will be prepared to make the most of them.
- Create a rough draft. Include the introduction, body of work and conclusion.
- Re-read, read aloud, or have someone read your paper, as part of the edit process. Rewrite and repeat the previous process!
- Don't turn in your final assignment until you are comfortable with the product.
- Above all, seek help if you need it. Your instructor is here to assist in making your course enjoyable and successful.

# Library Updates & Highlights

Lian Ruan  
Head Librarian

**New Personnel:** Elizabeth Morris joined the IFSI Library team in June and was promoted to Technical Services Librarian in August. Her main duties are to assist the Head Librarian in library operational areas with particular emphasis on technical services, which include cataloging and acquisitions. Elizabeth is an alumna of the Graduate School of Library and Information Science (GSLIS) of the University of Illinois at Urbana-Champaign. She has worked in academic and public libraries; her work experience includes the College of ACES Funk Library on the Urbana-Champaign campus, as well as the Otsego District Public Library in Michigan.

**Reference Services:** The IFSI Library received the highest number of visitors in October 2004: 509. Diane Richardson, Reference Librarian, and her team also handled 339 reference requests that month. .

In 2004, Program Director Brian Brauer included a new dimension to Fire Academy - library research. Library staff searched for the names of specific firefighter fatalities involved with specific fires and then students came to the library with the name of the firefighter they were assigned to research. IFSI librarians showed them how to search the catalog and other online resources to find information about the firefighters and their fires.

Librarians are also working with researchers at the Illinois Homeland Security Research Center, filling information requests, searching for information resources concerning research and grant-related subjects, and by providing current awareness updates.

**Grant Projects:** 343 survey responses have been received for the research project, entitled "A survey to support 'Evidence-Based Practice' in Special Libraries Serving Fire Service Personnel and Researchers in Public Safety and Homeland Security Areas." Six fire libraries across the nation participated in the project.

The IFSI Library's new Public Outreach project, "Putting Professional Development into Practice," aims to increase awareness of uses of information technology, (i.e. PDA and Internet) for improving access to biomedical information for paramedics/firefighters in five selected fire departments in Chicago, Rockford, Peoria and Champaign-Urbana.

**Teaching:** Two graduate students from the University's Graduate School of Library and Information Science took their practicum

course (1/2 unit) at IFSI Library in Fall 2004. They each contributed 100 hours on cataloging and user training projects.

Lian Ruan once again is teaching the Special Library Administration course in spring 2005 at the University's Graduate School of Library and Information Science. On October 5, 2004, Lian did a presentation, entitled "Reaching Out and Serving First Emergency Responders" with Bill Farnum for 18 visiting librarians from all over the world.

**Training and Professional Development:** Laurie Bartolini, Illinois State Library, did a training workshop on **OCLC Connexion** for IFSI staff, IFSI practicum student, and library staff from the Water Survey and Waste Management Research Center Libraries on October 15.

**Honors:** Ruan was profiled in the 2005 Edition, *Who's Who in the World*, Marquis.

**Featured Titles Added to IFSI Library** by Elizabeth Morris, Technical Services Librarian.

For loan information, please contact the Library ([fsi@library.uiuc.edu](mailto:fsi@library.uiuc.edu) or 1-800-437-5819).

*American Heat: 2004 December, Upstairs/Downstairs* (video). Firefighting danger and problems encountered when a structure appears taller or shorter from the outside than it actually is on the inside. Firefighters may be unaware of the mezzanine or basement.

*Pulse: Emergency Medical Update, 2004 November, Military Medicine* (video). Overview of EMS in terms of lessons learned from previous eras of combat and the practical applications to civilian and military pre-hospital care.

*Cook County Administration Building Fire Review* (Witt Report/ Washington St. Fire). James Lee Witt Associates.

*Pulse: Emergency Medical Update, 2004 December, ICS for EMS* (video). Fire and Emergency Television Network. Pulse traveled to Florida to see how the incident command system helped the emergency response and relief effort after Hurricane Charley in the summer of 2004.

*Vehicle Extrication: A Practical Guide*. Anderson, Brian G.

*Up from Zero* (DVD). U.S. Department of Labor. Documentary focuses on the men and women of the New York City building trades who worked at Ground Zero in the rescue, recovery, and clean up efforts following the terrorist attacks of September 11, 2001.

*Emergency Management Guide for Business and Industry*. Federal Emergency Management Agency. "A step-by-step ap-

*continued to page 19*

proach to emergency planning, response and recovery for companies of all sizes.

*Emergency Vehicle Safety Initiative.* Federal Emergency Management Agency. United States Fire Administration.

*Appendices. F.D.N.Y. The Battle Continues: Volumes 6, 7, 9* (videos). Fire Line Video Productions. Narrated footage of NYC fires; includes residential and commercial fires.

*Fires Ignited by Lighters and Matches.* National Fire Data Center. United States Fire Administration. Topical report examines causes and characteristics of lighter and match fires, based on 2002 NFIRS data, and compares these characteristics with those of all fires.

*Discovering America's Fire Museums,* Conway, W. Fred. A guidebook to over 150 museums in the U.S. and Canada featuring vintage fire apparatus and firefighting memorabilia. Includes foreword with explanations of historic aspects of firefighting.

*A Fire Chief Remembers: Tales of the FDNY* Schneider, Edwin F. Memoirs of retired Battalion Chief Schneider's career in the FDNY spanning four decades.

*Fire and EMS Law for Officers Safety (Including Lights and Sirens).* Bennett, Lawrence T. Six legal lessons related to safety issues in fire and EMS.

*Fire Prevention: Inspection and Code Enforcement,* 2nd ed., Diamantes, David. Comprehensive guide to the "nuts and bolts" of inspecting and enforcing code, including right

of entry, enforcement authority, the permit system, building limits and types of construction, flow testing, and fire protection systems and their maintenance.

*Fire Service Orientation and Terminology,* 4th ed.. International Fire Service Training Association..

*INTERFLAM 2001: Proceedings of the Ninth International Conference.* Grayson, S.J. INTERFLAM 2001 Includes two volumes. Contents: v. 1. Day's 1-2 technical papers — v. 2. Day 3 technical papers and all poster papers.

*The Municipality and its Fire and Rescue Service in Transition: Leadership and Methodology for Safety and Accident Prevention.* Rosenberg, Tommy. Swedish Rescue Services Agency. Discusses how municipal rescue services need to focus on prevention, thus increasing life safety.

*Collapse of Burning Buildings Series* (DVD), Dunn, Vincent. Part 1: Wall Collapse; Part 2: Peaked Roof Collapse; Part 3: Truss Roof Collapse; Part 4: Floor Collapse; Part 5: Wood Frame Building Collapse

*Journal of Homeland Security* Published exclusively online.

<http://www.homelandsecurity.org/journal/>

*Simulation of the Dynamics of a Fire in a Two-Story Duplex: Iowa, December 22, 1999* (CD-ROM). Madrzykowski, Daniel. Forney, Glenn P. Walton, William D. Building and Fire Research Laboratory.

---

## Wanted: Women Who Fight Fire!



On Saturday and Sunday, October 8 and 9, the Illinois Fire Service Institute will again host training with a special focus on female firefighters. All female firefighters, volunteer or paid, are invited to participate in the hands-on training. Our goal is to have a successful day of training and networking, and establish a statewide network of female firefighters. This will be a great opportunity for women throughout the State to get together and fight fire.

Watch for details at

**[www.fsi.uiuc](http://www.fsi.uiuc)**

Greg Fisher  
Assistant Fire  
Education  
Specialist and  
Cornerstone  
Program  
Director

As I ponder what to write for my first article for the IFSI newsletter, I could not help but think back to an extremely inclement evening in Hickory Hills, IL this last January 7<sup>th</sup> where I had the honor of attending Chief Ed Enright's retirement party. The number of people that braved a snowstorm to travel from the suburbs, southern Illinois, Iowa, and elsewhere to wish Chief Enright best wishes in his new found "free time" overwhelmed me. After 38 years of service to the citizens of Chicago, most would take the time to enjoy life, take it easy, kick back, and, well, actually retire. I frankly don't see Chief Enright doing that. Not because he doesn't deserve it, but rather it's the nature of the "job" and the calling or vocation it represents. It's in his blood and I'm predicting that golf, hunting, fishing, or any number of other recreational pursuits will still take a back seat to the fire service. Events that will allow him to mentor or guide others still active in **suppression** (is this a fireman's term?), command, or fire service instructional activities will be on his agenda.

As the testimonials came from professional organizations, subordinates, supervisors, former ride-a-longs, Army buddies, friends, and family the theme was always the same. Perhaps the verse from John 15:13 best describes it and the legacy that will **be** Chief Edmund Enright. "**Greater love has no one than this that he lay down his life for his friends**" Most would argue that this refers to the ultimate sacrifice...a line of duty death. I contend that this verse can be a motto for, shall we say—"A line of duty LIFE."

The stories relayed to us that evening were examples of service to God, country, family, department and the fire service in general. Ed referred to his church and his family's relationship with God, and the important holidays missed while on duty.

One of Ed's Vietnam companions traveled from out of state to relate the selfless and mentoring actions he displayed in wartime. His family and wife referred to his ritual "good byes" to his children on duty days and the lessons they learned from him either directly or by his tremendous example. No less important were the many letters read from the President, the Governor, and the line of professional associations, societies, and organizations tak-

ing the podium to present plaques and gifts of appreciation, admiration and dedication to Chief Enright. The groups representing Fire Chiefs, Instructors, State Fire Marshal, the Chicago Fire Department, Fraternal Order of Leatherhead Society and the Illinois Fire Service Institute all expressed the same theme.

Teaching and mentoring were components of that theme. Chief Enright can reach a large audience and be effective in delivering the lesson. I attended a command class he taught in a rural community in the mid-'90s that became a lesson to me in the art of instruction itself. Watching him relate material to a department whose total membership represented less manpower than he was used to on a still alarm was time well-spent.

As instructors we all bring something to the table through our experience, formal, or technical education, and relationships we build with people in the field. The trick for us as instructors or those who wish to pass on information, is finding a way to make it useful.

We have all seen the caricature of an officer keeping training, seminars and conferences from the troops so "they won't know as much" as he does. Whether you are an officer, tailboard, trainer or chief, let's take an example from Chief Enright who got involved with the Fire Service Institute at a time in his career when most folks would be winding down. Let's follow his example and pass on all we can. The "on the job" training has diminished with prevention efforts and code enforcement. Education of the public has reduced the number of accidental fires and the stock of acquired structures throughout the state has dwindled. Leading and participating in meaningful "hands on" training and drilling on the fundamentals should be at the top of our "to do" list. The Cornerstone Program can help get that ball rolling.

For the fire service throughout the state, let this be an invitation to request the practical training for the troops. This can be training in Champaign at IFSI or classes brought to your firehouse or regional training center.

For the instructors from the Institute...let this be a nudge to follow up with the firefighter that you met at Fire College asking about a class. Take the time to make the call to the department you've seen struggle on a mutual aid call. Reach out to the MABAS Division or Mutual Aid Association and organize a regional or county school that meets the mission of the Cornerstone Program.

To the extent possible, let's be a part of "a line of duty LIFE."



Ed Enright



## Overview

### Thursday, July 28

- 3:00 p.m. – 7:00 p.m. Check-in at IFSI and Florida Avenue Residence Halls
- 7:00 p.m. – 8:30 p.m. Orientation, gear check shift & drill assignments, logistics and Code of Conduct Review
- 8:30 p.m. – 10:30 p.m. LPG (Propane) Fire Fighting evolutions

### Friday, July 29 & Saturday, July 30

- 8:00 a.m. – Noon Live smoke, fire and “hands on” skill sessions in various burn buildings
- 1:00 p.m. – 5:30 p.m. Continuation of live fire and smoke drills
- 7:00 p.m. – 9:30 p.m. Optional evening sessions  
“Kick it up a Notch” practical sessions (Friday)  
Water Ball Contest / Explorer – Cadet Teams (Saturday)

### Sunday, July 31

- 8:00 a.m. – Noon Completion of live fire and smoke drills and facility clean up
- 1:00 p.m. – 2:00 p.m. Wrap up, presentation of certificates, hats, shirts and gear bag

## Questions?

**Greg Fisher**  
**217-244-1220**

**Email: [gafisher@fsi.uiuc.edu](mailto:gafisher@fsi.uiuc.edu)**



## July 28 - 31, 2005

**The Explorer-Cadet Fire School  
will be held at the Illinois Fire  
Service Institute's facilities in  
Champaign.**

**PRE-REGISTRATION IS  
REQUIRED.**

**NO WALK-INS ALLOWED.**

**Fee to attend: \$150  
(Recommended)**

The \$150 fee includes:

- Three nights lodging on-campus
- Hot breakfast served Friday, Saturday and Sunday mornings at the dorm
- Catered lunch on IFSI training grounds
- Souvenir shirt, cap and gear bag

Alternate fee: \$140 (does not include any lodging or off-site meals)

**Registration fee increases June 16**

Register and pay by	With On-Campus Housing*	Without Housing**
June 15	\$150	\$ 140
June 16- July 1	\$175	\$ 165
July 2 - 15	not avail.	\$ 165

\* Includes housing at Florida Avenue Residence Hall (double occupancy), hot breakfast in dormitory, on-site lunch & snacks each day, shirt, hat and gear bag. ON-CAMPUS HOUSING IS NOT AVAILABLE AFTER JULY 1.

\*\* Includes on-site lunch & snacks each day, shirt, hat and gear bag. OFF-CAMPUS HOUSING ARRANGEMENTS AND PAYMENT ARE THE RESPONSIBILITY OF THE PARTICIPANT.

# 81st Annual Fire College

June 2 - 5, 2005

“United We Stand: Preparing for Statewide Response”

## Schedule

### Wednesday, June 1

Registration 6:30 p.m. - 8:00 p.m.  
IFSI Library open 8:30 a.m. - 9:00 p.m.

### Thursday, June 2

Registration 6:30 a.m. - 9:00 a.m.  
and  
11:00 a.m. - 5:00 p.m.  
Orientation 8:30 a.m.  
Assembly 9:15 a.m.

Keynote address by Mike Chamness, Chairman of the Illinois Terrorism Task Force and Major (Ret.) Jason Frei

Lunch 11:00 a.m.  
Classes 1:00 p.m. - 5:00 p.m.  
Vendor Displays 7:00 a.m. - 7:00 p.m.  
“Myths and Realities” 7:00 p.m. - 10:00 p.m.

IFSI Library open 8:30 a.m. - 9:00 p.m.

### Friday, June 3

Registration 7:30 a.m. - 5:00 p.m.  
Classes 8:00 a.m. - 5:00 p.m.  
Vendor Displays 8:00 a.m. - 7:00 p.m.  
Open House 7:30 p.m.  
IFSI Library open 8:30 a.m. - 9:00 p.m.

### Saturday, June 4

Registration 6:30 a.m. - 10:00 a.m.  
Classes 8:00 a.m. - 5:00 p.m.  
Vendor Displays 8:00 a.m. - 5:00 p.m.

### Sunday, June 5

Classes 8:00 a.m. - Noon

## Fire College Registration Fees (before or on May 2, 2005)

12-Hour class: \$50.00  
12-Hour hands-on class: \$100.00  
24-Hour class: \$100.00  
24-Hour hands-on class: \$200

Registration Fees (after April 29, 2005, including at the door)  
Add \$50.00 per student

## Payment of Fees

All registrations will be billed upon completion of Fire College. Do not include payment with registration form. Check appropriate box on registration form to indicate if department or student is to be billed. Students will be required to sign a statement acknowledging billing policy. If no box is marked, the fire department will be billed. Any discrepancies in billing MUST be submitted in writing to Brian Brauer, Fire College Director, prior to September 30, 2005. Any bills not disputed by this date will be considered correct and owed by the registrant.

## Substitutions

Substitutions can be made by telephone or at the on-site registration desk. You must provide IFSI with the name of the student to be replaced and the name of the substitute. The substitute is required to complete a new registration form signed by the fire department chief or training officer. The new form can be mailed or presented at the registration desk.

## Cancellation Policy

Failure to cancel registration prior to 5:00 p.m. CDT, May 14, 2005 will result in full fees being billed after conclusion of Fire College. After May 14, 2004, cancellations will only be accepted under emergency situations on a case-by-case basis. Insufficient shift coverage, non-emergency call-backs, and illnesses that do not result in emergency room care or hospitalization are NOT considered emergencies and will NOT result in a waiving of fees. It is NOT the responsibility of IFSI to ensure sufficient coverage or scheduling of emergency response resources so that students may attend classes.

*It is the responsibility of the canceling student to ensure that the registrar received their cancellation on or before May 14, 2005. All cancellations must be in writing (Fax or U.S. Mail. Phone or Email cancellations will NOT be accepted.*

**There will be no changing classes once you are enrolled in a class.**



**If you provide a valid email address, you will receive a confirmation notice after May 10, 2005 indicating which class(es) you are enrolled in.**

**Visit the web site for online registration and complete details:  
[www.fsi.uiuc.edu](http://www.fsi.uiuc.edu)**

**ADMINISTRATION**

Richard Jaehne  
 Director  
 217/333-8926  
 jaehne@fsi.uiuc.edu

David F. Clark  
 Deputy Director  
 217/244-9674  
 dfclark@fsi.uiuc.edu

John (Mac) McCastland  
 Assistant Director for Chicago Metro  
 Region  
 815/824-9201  
 jmccastl@fsi.uiuc.edu

Marcia Miller  
 Director of Budget & Resource Planning  
 217/333-9013  
 miller11@fsi.uiuc.edu

**PROGRAM DIRECTORS**

Eddie Bain  
 Investigation, Prevention and Public  
 Education  
 217/333-9014  
 edbain@fsi.uiuc.edu

Brian Brauer  
 Fire Fighting Training  
 217/333-9027  
 brbrauer@fsi.uiuc.edu

Greg Fisher  
 "Cornerstone Program"  
 217/244-1220  
 gafisher@fsi.uiuc.edu

Nancy Mason  
 Hazardous Materials and Terrorism  
 Training  
 217/244-5108  
 nnmason@fsi.uiuc.edu

Bill Renaker  
 Technical Rescue Training  
 217/333-8927  
 wrenaker@fsi.uiuc.edu

**PROGRAM COORDINATORS**

Duane Bales  
 Auto Extrication Coordinator &  
 Metro-East Representative  
 618/920-5901  
 rbales@fsi.uiuc.edu

Mark Clapp, LP Gas Training  
 217/244-7134  
 clapp@fsi.uiuc.edu

Sharon Dotson, EMS Training  
 217/333-4215  
 tbear@fsi.uiuc.edu

Len Edling, Terrorism Training  
 773/233-4425  
 ledling@fsi.uiuc.edu

Tom Hatley  
 Southern Illinois Coordinator  
 618/942-2565  
 thatley@fsi.uiuc.edu

Dan Hite, Downstate Fire Officer Training and  
 Farm Rescue Training  
 217/244-7134  
 hite@fsi.uiuc.edu

Raymond Kay  
 Hazardous Materials Training  
 708/479-8294  
 rkay@fsi.uiuc.edu

Jim Moore, Metro Chicago Officer & Industrial  
 Training  
 630/369-2008  
 jpmoore1@fsi.uiuc.edu

Rudi Rinas, HazMat Operations Training &  
 HazMat Regional Training Site Coordinator  
 773/646-5770  
 rrinas@fsi.uiuc.edu

Jon Rogers, Downstate Industrial Training  
 217/265-8120  
 jarogers@fsi.uiuc.edu

Denise Smith, Visiting Research Fellow  
 217/333-4215  
 dsmith@skidmore.edu

Richard Valenta  
 Web Based Training Coordinator  
 847/658-5297  
 rvalenta@fsi.uiuc.edu

Robert Wilson, Northern Illinois LP Gas  
 Training  
 217/244-7134

**INSTRUCTIONAL SUPPORT**

Bill Farnum, Instructional Support Specialist  
 217/333-0660  
 wfarnum@fsi.uiuc.edu

**FACILITIES**

Barry Wagner, Facilities Manager  
 217/333-9015  
 bwagner@fsi.uiuc.edu

Robert Foster, Class & Site Support  
 217-244-5447  
 rfoster@fsi.uiuc.edu

**LIBRARY**

Lian Ruan, Head Librarian  
 217/333-8925  
 lruan@fsi.uiuc.edu

**BUSINESS, INSTRUCTIONAL & STUDENT  
SUPPORT STAFF**

Jodi Beccue, HazMat, Fire Officer Programs  
 217-244-6674  
 jbeccue@fsi.uiuc.edu

Kristy Berbaum  
 Firefighting, EMS & Cornerstone Programs  
 217/244-6185  
 kberbaum@fsi.uiuc.edu

Mark Berg, HazMat & Terrorism Programs  
 217/333-2905  
 markberg@fsi.uiuc.edu

Ann Jack Haluzak, Visiting HazMat  
 Program Coordinator  
 217/244-6228  
 jackhal@fsi.uiuc.edu

Terri Hopper  
 217/244-7131  
 hopper@fsi.uiuc.edu

Teresa Kreps  
 217/333-7050  
 kreps@fsi.uiuc.edu

Beth Niswonger, HazMat Inventory  
 Specialist  
 217/244-6004  
 niswonge@fsi.uiuc.edu

Debbie Ohrstein  
 217/244-6835  
 ohrstein@fsi.uiuc.edu

Jan Rusk, Industrial & Unified Command  
 Programs  
 217/333-8631  
 janrusk@fsi.uiuc.edu

Debbi Short, Coordinator for  
 Terrorism Training  
 217/244-7135  
 dshort1@fsi.uiuc.edu

Patty Wieland, Investigation/Prevention,  
 Auto Extrication & Rescue Programs  
 217/333-8921  
 pwieland@fsi.uiuc.edu

**WEBMASTERS**

Jon Stahler  
 217/333-2163  
 stahler@fsi.uiuc.edu

Tim Lash  
 timlash@fsi.uiuc.edu  
 217/244-6910

Nick Voss  
 ncvoss@fsi.uiuc.edu  
 217/265-9890

**DIRECTOR OF DEVELOPMENT**

Jeff Courson  
 217/333-8923  
 jcourson@fsi.uiuc.edu

**DIRECTOR OF MARKETING**

Mary Auth  
 217/351-6373  
 mary@maryauth.com

---

# 81st Annual Fire College Classes

## **FIRE FIGHTING CLASSES**

Entry Level Recruit Training  
RIT Team Basics: Theory, Tools and Implementation  
Commercial Building Operations for Engine Companies  
Essential Truck Company Operations  
Fire Fighting Core Competencies  
Coordinated Fire Ground Operations  
Self-Contained Breathing Apparatus  
Fighting Single-Family Dwelling Fires  
Responding to LPG Emergencies  
Thermal Imaging Camera Training

## **DRIVER/OPERATOR CLASSES**

Fire Service Vehicle Operator Train-the-Trainer  
Pumper Operations  
Tanker Operations

## **EMS CLASSES**

EMS Leadership and Management for the Front Lines  
Firefighter Rehabilitation and Heat Stress Management  
Rescue Medic Awareness

## **HOMELAND SECURITY CLASS**

Emergency Response to Terrorism: Basic Concepts

## **RESCUE CLASSES**

Technical Rescue Awareness  
Basic Auto Extrication  
Advanced Auto Extrication  
Essentials of Vertical Rescue  
First -In Operations for Building Collapse  
"It Crashed In Your Backyard"  
Confined Space Rescue  
Trench Rescue  
Farm Extrication & Rescue

## **OFFICER CLASSES**

Firefighter Initial Fire Investigation  
Introduction to Incident Command/Unified Command  
The Fire Scene Officer  
First-In Officer  
NFA: Leadership II: Strategies for Personal Success  
NFA: Shaping the Future  
NFA: Leadership III: Strategies for Supervisory Success  
Quality Customer Service  
High Rise Fire Fighting Operations

**See page 22 for Fire College Schedule and registration details.**